Supporting information

Structures of *Trypanosoma brucei* methionyl-tRNA synthetase with urea-based inhibitors provide guidance for drug design against sleeping sickness

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A typical thermal melting curves of \(Tb\)MetRS in the presence of different ligands.

\(Tb\)MetRS (0.1 mg/ml) is incubated in the presence of different ligands as indicated. The incubation temperature of the samples is increased from 20°C to 90°C and the fluorescence signal from the reporter dye (Sypro Orange) monitored. Melting temperatures (\(T_m\)) are calculated from the curves as the temperature where the first derivative value is maximal. The average \(T_m\) value of \(Tb\)MetRS in the presence of Chem 1433, ATP and Mg\(^{2+}\) (purple dash) is 1.6°C higher than the \(T_m\) of \(Tb\)MetRS in the presence of Chem 1433 only (\(n = 4, P < 0.02\)). The average \(T_m\) of \(Tb\)MetRS in the presence of Chem 1433, AMPPCP and Mg\(^{2+}\) (black dot) is 1.2°C higher than the \(T_m\) of \(Tb\)MetRS in the presence of Chem 1433 only (\(n = 4, P < 0.05\)). Changes in \(T_m\) of \(Tb\)MetRS in the presence of ATP and Mg\(^{2+}\) or AMPPCP and Mg\(^{2+}\) compared to \(Tb\)MetRS only are insignificant (\(P > 0.3\) and 0.8 respectively).